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< 110 > E. HOFFMANN-LA ROCHE AG

< 120 > PROCESS FOR THE MANUFACTURE OF CAROTENOIDS AND
BIOLOGICALLY USEFUL MATERIALS THEREOF

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< 151 > 1999-12-01

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Journal of the Royal Statistical Society: Series C (Applied Statistics) 54(4)

இங்கு கொடுக்கப்படுகிற பார்வையை விட விரும்புகிறேன்.

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· 212 · DNA
· 213 · *Phaffia rhodozyma*
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·212·DNA

·213·*Phaffia rhodozyma*

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Phe Ser Asp Arg Gly Thr Pro Ala Ser Tyr Arg His Met His Gly Tyr
85 90 95

tct gga cac acc ttc aag atg gtc aac agg aac ggt gac tgg aat tat 336
Ser Gly His Thr Phe Lys Met Val Asn Arg Asn Gly Asp Trp Asn Tyr
100 105 110

gtc cag att cac atg cgc acc gat cag ggt gtc aag act cac acc aat 384
Val Gln Ile His Met Arg Thr Asp Gln Gly Val Lys Thr His Thr Asn
115 120 125

gaa gag gct tcg aaa ctc gac gec tcc aat ccc gat tca aac gga gac 432
Glu Glu Ala Ser Lys Leu Asp Ala Ser Asn Pro Asp Ser Asn Gly Asp
130 135 140

gac ttg ttc gac gca atc aag aat gga gac ttc cct agc tgg acg gtt 480
Asp Leu Phe Asp Ala Ile Lys Asn Gly Asp Phe Pro Ser Trp Thr Val
145 150 155 160

cag gta cag gta atg tct cct gag cag aac ttc aga tac aac 528
Gln Val Gln Val Met Ser Pro Glu Gln Ala Gln Lys Phe Arg Tyr Asn
165 170 175

att ctg gat ctc acc aag gtc tgg tcc cac aag gag ttc cca ctt agg 576
Ile Leu Asp Leu Thr Lys Val Trp Ser His Lys Glu Phe Pro Leu Arg
180 185 190

acg att gga aag ttc act ttg aac cga aac gtg gat aac tat ttc gca 624
Thr Ile Gly Lys Phe Thr Leu Asn Arg Asn Val Asp Asn Tyr Phe Ala
195 200 205

gag gtt gaa cag ctc gcc ttt get cct tcc cat ctg cct cct gga atc 672

Glu Val Glu Gln Leu Ala Phe Ala Pro Ser His Leu Pro Pro Gly Ile
210 215 220

gag ccc teg aac gat ccc gtc ctt cag get cga cta ttc tcc 714
Glu Pro Ser Asn Asp Pro Val Leu Gln Ala Arg Leu Phe Ser
225 230 235

<210> 9
<211> 238
<212> PRT
<213> Phaffia rhodozyma

<400> 9
Ser Gly Ser Ser Asp Thr Ala Arg Asp Pro Arg Gly Phe Ser Leu Lys
1 5 10 15

Val Lys Thr Ser Glu Gly Asn Trp Asp Phe Val Gly Asn Asn Thr Pro
20 25 30

Ile Phe Phe Leu Arg Asp Pro Ala Lys Phe Pro Ile Phe Ile His Thr
35 40 45

Gln Lys Arg Asn Pro Gln Thr Asn Ser Lys Asp Lys Asp Ala Phe Trp
50 55 60

Asp Tyr Leu Ser Gln Asn Pro Glu Ser Val His Gln Val Leu His Leu
65 70 75 80

Phe Ser Asp Arg Gly Thr Pro Ala Ser Tyr Arg His Met His Gly Tyr
85 90 95

Ser Gly His Thr Phe Lys Met Val Asn Arg Asn Gly Asp Trp Asn Tyr
100 105 110

Val Gln Ile His Met Arg Thr Asp Gln Gly Val Lys Thr His Thr Asn
115 120 125

Glu Glu Ala Ser Lys Leu Asp Ala Ser Asn Pro Asp Ser Asn Gly Asp
130 135 140

Asp Leu Phe Asp Ala Ile Lys Asn Gly Asp Phe Pro Ser Trp Thr Val
145 150 155 160

Gln Val Gln Val Met Ser Pro Glu Gln Ala Gln Lys Phe Arg Tyr Asn

165

170

175

Ile Leu Asp Leu Thr Lys Val Trp Ser His Lys Glu Phe Pro Leu Arg
180 185 190

Thr Ile Gly Lys Phe Thr Leu Asn Arg Asn Val Asp Asn Tyr Phe Ala
195 200 205

Glu Val Glu Gln Leu Ala Phe Ala Pro Ser His Leu Pro Pro Gly Ile
210 215 220

Glu Pro Ser Asn Asp Pro Val Leu Gln Ala Arg Leu Phe Ser
225 230 235

· 210 · 10
· 211 · 23
· 212 · DNA
· 213 · Artificial Sequence

220 ·
223 · Description of Artificial Sequence:Sod1(sense
primer for cloning of SOD genes)

· 400 · 10
aarcaycayc aracnctaygt naa 23

· 210 · 11
· 211 · 23
· 212 · DNA
· 213 · Artificial Sequence

· 220 ·
223 · Description of Artificial Sequence:Sod4 (antisense
primer for cloning of SOD genes)

· 400 · 11
gcceanceng ancccytgnac ncc 23

· 210 · 12
· 211 · 26
· 212 · DNA
· 213 · Artificial Sequence

<220>
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primer for the construction of SOD1-disrupting
plasmid)
<400> 12
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26

· 210 · 13
· 211 · 26
· 212 · DNA
· 213 · Artificial Sequence

220 ·
<223> Description of Artificial Sequence:Sod15
(antisense primer for the construction of
SOD1-disrupting plasmid)

· 400 · 13
gaattcaggtt caacggagga ggacac

26

· 210 · 14
· 211 · 26
· 212 · DNA
· 213 · Artificial Sequence

· 220 ·
<223> Description of Artificial Sequence:Sod47 (sense
primer for the construction of SOD2-disrupting
plasmid)

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gaattccggag gaggacacat caacccg

26

· 210 > 15
· 211 > 26
· 212 > DNA
· 213 > Artificial Sequence

<220>
<223> Description of Artificial Sequence:Sod48

(antisense primer for the construction of
SOD2-disrupting plasmid)

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<210> 16
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<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence:Sod2 (sense
primer for cloning of CAT gene)

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mgnnttytcna cngtngggngg nga 23

<210> 17
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Cat5 (antisense
primer for cloning of CAT gene)

<400> 17
ckrtgnckyt gngtrtcngg rta 23